RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/541,822_

Source: _PCT/10_

Date Processed by STIC: _7/19/05_

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RAW SEQUENCE LISTING   DATE: 07/19/2005
PATENT APPLICATION: **US/10/541,822**   TIME: 09:06:42

Input Set : **A:\PTO.SR.txt**
Output Set: **N:\CRF4\07192005\J541822.raw**

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 3 <110> APPLICANT: NATIONAL UNIVERSITY CORPORATION KAGAWA UNIVERSITY
 5 <120> TITLE OF INVENTION: GENE SEQUENCE OF L-RHAMNOSE ISOMERASE HAVING NEW CATALYTIC
FUNCTION AND
 6       USE THEREOF
 8 <130> FILE REFERENCE: PCT-04-IT01
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/541,822
C--> 11 <141> CURRENT FILING DATE: 2005-07-11
13 <150> PRIOR APPLICATION NUMBER: JP2003-005041
14 <151> PRIOR FILING DATE: 2003-01-10
16 <150> PRIOR APPLICATION NUMBER: JP2003-096046
17 <151> PRIOR FILING DATE: 2003-03-31
19 <150> PRIOR APPLICATION NUMBER: JP2003-299371
20 <151> PRIOR FILING DATE: 2003-08-22
22 <160> NUMBER OF SEQ ID NOS: 2
24 <170> SOFTWARE: PatentIn version 3.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1290
28 <212> TYPE: DNA
29 <213> ORGANISM: Pseudomonas stutzerii
31 <400> SEQUENCE: 1
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34 gcgctgaagg aagactacga ggcgctcggc gcgaatctcg cccgccgtgg cgtcgacatc    120
36 gaggccgtca cggccaaggt cgaaaagttc ttcgtcgccg tcccctcctg gggcgtcggc    180
38 acgggcggca cgcgctttgc gcgcttcccc ggcaccggcg agccgcgcgg catcttcgac    240
40 aagctggacg actgcgccgt catccagcag ctgacacgcg ccacgcccaa tgtctcgctg    300
42 catattccgt gggacaaggc cgatccgaag gagctgaagg ccaggggcga cgccctcggc    360
44 ctcggcttcg acgcgatgaa ctccaatacc ttctccgatg cgcccggcca ggcgcattcc    420
46 tacaaatacg gctcgctcag ccacacggat gcggcaacgc gcgcccaggc ggtcgagcac    480
48 aatctggaat gcatcgagat cggcaaggcc atcggctcca aggcgctgac ggtctggatc    540
50 ggtgacggct ccaacttccc cggccagagt aacttcacca gggctttcga acgttatctc    600
52 tcggcgatgg cggagatcta caagggcctg ccggatgact ggaagctgtt ctccgagcac    660
54 aagatgtacg agccggcctt ctattcgacc gtcgtgcagg actggggcac gaattatctc    720
56 atcgcccaga cgctcggccc caaggcccag tgcctcgtcg atctcggcca tcacgcgccg    780
58 aacaccaata tcgagatgat cgtcgcccgg ctcatccagt tcggcaagct cggcggcttc    840
60 catttcaacg attccaaata cggcgacgac gacctcgatg ccggcgccat cgagccctat    900
62 cgcctcttcc tcgtcttcaa cgagctggtg gatgcggagg cgcgcggcgt caagggcttc    960
64 cacccggccc acatgatcga ccagtcgcac aacgtcaccg acccgatcga gagcctgatc   1020
66 aacagcgcga acgaaatccg tcgcgcctat gcgcaggccc tccttgtcga ccgcgcggcg   1080
68 ctttccggct accaggagga caacgacgcc ctgatggcga cggaaacgtt gaagcgcgcc   1140
70 taccgtaccg atgtggagcc gatcctcgcc gaggcccgcc gccgcacggg cggcgccgtc   1200
72 gaccccgtcg cgacctatcg ggccagcggc taccgcgcca gggtcgccgc cgagcgcccc   1260
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77 <210> SEQ ID NO: 2
78 <211> LENGTH: 430
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79 <212> TYPE: PRT
80 <213> ORGANISM: Pseudomonas stutzerii
82 <400> SEQUENCE: 2

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85 1               5                   10                  15
88 Arg Arg Ala Ser Ala Leu Lys Glu Asp Tyr Glu Ala Leu Gly Ala Asn
89              20                  25                  30
92 Leu Ala Arg Arg Gly Val Asp Ile Glu Ala Val Thr Ala Lys Val Glu
93          35                  40                  45
96 Lys Phe Phe Val Ala Val Pro Ser Trp Gly Val Gly Thr Gly Gly Thr
97      50                  55                  60
100 Arg Phe Ala Arg Phe Pro Gly Thr Gly Glu Pro Arg Gly Ile Phe Asp
101 65                  70                  75                  80
104 Lys Leu Asp Asp Cys Ala Val Ile Gln Gln Leu Thr Arg Ala Thr Pro
105              85                  90                  95
108 Asn Val Ser Leu His Ile Pro Trp Asp Lys Ala Asp Pro Lys Glu Leu
109             100                 105                 110
112 Lys Ala Arg Gly Asp Ala Leu Gly Leu Gly Phe Asp Ala Met Asn Ser
113         115                 120                 125
116 Asn Thr Phe Ser Asp Ala Pro Gly Gln Ala His Ser Tyr Lys Tyr Gly
117     130                 135                 140
120 Ser Leu Ser His Thr Asp Ala Ala Thr Arg Ala Gln Ala Val Glu His
121 145                 150                 155                 160
124 Asn Leu Glu Cys Ile Glu Ile Gly Lys Ala Ile Gly Ser Lys Ala Leu
125                 165                 170                 175
128 Thr Val Trp Ile Gly Asp Gly Ser Asn Phe Pro Gly Gln Ser Asn Phe
129             180                 185                 190
132 Thr Arg Ala Phe Glu Arg Tyr Leu Ser Ala Met Ala Glu Ile Tyr Lys
133         195                 200                 205
136 Gly Leu Pro Asp Asp Trp Lys Leu Phe Ser Glu His Lys Met Tyr Glu
137     210                 215                 220
140 Pro Ala Phe Tyr Ser Thr Val Val Gln Asp Trp Gly Thr Asn Tyr Leu
141 225                 230                 235                 240
144 Ile Ala Gln Thr Leu Gly Pro Lys Ala Gln Cys Leu Val Asp Leu Gly
145                 245                 250                 255
148 His His Ala Pro Asn Thr Asn Ile Glu Met Ile Val Ala Arg Leu Ile
149             260                 265                 270
152 Gln Phe Gly Lys Leu Gly Gly Phe His Phe Asn Asp Ser Lys Tyr Gly
153         275                 280                 285
156 Asp Asp Asp Leu Asp Ala Gly Ala Ile Glu Pro Tyr Arg Leu Phe Leu
157     290                 295                 300
160 Val Phe Asn Glu Leu Val Asp Ala Glu Ala Arg Gly Val Lys Gly Phe
161 305                 310                 315                 320
164 His Pro Ala His Met Ile Asp Gln Ser His Asn Val Thr Asp Pro Ile
165             325                 330                 335
168 Glu Ser Leu Ile Asn Ser Ala Asn Glu Ile Arg Arg Ala Tyr Ala Gln
169             340                 345                 350
172 Ala Leu Leu Val Asp Arg Ala Ala Leu Ser Gly Tyr Gln Glu Asp Asn
173         355                 360                 365
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176 Asp Ala Leu Met Ala Thr Glu Thr Leu Lys Arg Ala Tyr Arg Thr Asp
177     370             375             380
180 Val Glu Pro Ile Leu Ala Glu Ala Arg Arg Arg Thr Gly Gly Ala Val
181 385             390             395                     400
184 Asp Pro Val Ala Thr Tyr Arg Ala Ser Gly Tyr Arg Ala Arg Val Ala
185             405             410             415
188 Ala Glu Arg Pro Ala Ser Val Ala Gly Gly Gly Gly Ile Ile
189         420             425             430
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VERIFICATION SUMMARY   DATE: 07/19/2005
PATENT APPLICATION: **US/10/541,822**   TIME: 09:06:43

Input Set : **A:\PTO.SR.txt**
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date